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AMSAT NEWS SERVICE
ANS-042.01

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

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ANS-042.01 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 042.01
>From AMSAT HQ KENSINGTON, MD.
November 5, 2017
To All RADIO AMATEURS
BID: $ANS-042.01

Satellite/AMSAT presentation for the Pasadena Radio Club on Tuesday, 23 January 2018. (part 1 of 3, links for parts 2 and 3 on the top/right of the page)
https://www.youtube.com/watch?v=En-fFpxg1kM&feature=youtu.be
An updated version of the slideshow projected on the screen is available for download. Go to http://dropbox.wd9ewk.net/ and find it in the folder "WA0POD".

[ANS would like to thank Patrick WD9EWK/VA7EWK for the above information]

Wind satellite survives vacuum
ESA's Aeolus satellite has been particularly tricky to build. One of the main stumbling blocks has been getting its lasers to work in a vacuum, but recent tests on the satellite show that the vacuum or temperature of space won't get in the way of Aeolus measuring Earth's winds.

[ANS would like to thank the European Space Agency for the above information]

All-in-one Service for the Space Station
Quick access to space, high-speed data feed and a unique vantage point are the selling points of a new commercial venture on the International Space Station. Its name is Bartolomeo, and its versatile design allows for many mission types at competitive prices from next year.

[ANS would like to thank the European Space Agency for the above information]

Sally Ride EarthKAM Space Camp's 60th Mission is open for registration.

This be will EarthKAM's 60th week-long mission and the first of 2018! Mission 60 runs February 20 through February 26. Mission sign up is available and orbits will be published by Thursday, February 15. Educators can sign up and get their class involved up to the day of the orbit. Requested images should be available within 24 hours of the orbit. If you are looking for a project to do with the images, look at our activities page for some great ideas that incorporate the images.
For more information on how to make an image request take a look at our User Guide.
www.earthKAM.org

[ANS would like to thank E.Mike Cardel, AMSAT ANS Rotating Editor for the above
information]

Estimated March 2018 Launch Date for Es'hail 2 Satellite
The SatBeams website says they have a estimated launch date of 28-Mar-2018 for the Es'hail 2 satellite carrying the world's first geostationary amateur radio service in S-band/X-band ranges via its AMSAT-DL hosted payload.
Launch site: Cape Canaveral
Launch vehicle: Falcon 9 v1.2
Commercial payloads on Es'hail 2 include 24 Ku-band and 11-Ka-band transponders to provide direct broadcasting services throughout the Middle East and North Africa as well as government communication services.
Posted at: https://www.satbeams.com/satellites?id=2683

[ANS thanks SatBeams.com for the above information]

Upcoming ARISS Contact Schedule

Quick list of scheduled contacts and events:

Vilniaus Jono Basanaviciaus Gymnasium together with Vilniaus Jono

Basanaviciaus Progymnasium, Vilnius, Lithuania, direct via LY1BWB The ISS callsign is presently scheduled to be OR4ISS The scheduled astronaut is Scott Tingle KG5NZA (***) Contact is a go for: Mon 2018-02-12 12:45:49 UTC 46 deg (***)
Los Angeles Academy Middle School, Los Angeles, CA, direct via W6RVD The ISS callsign is presently scheduled to be NA1SS The scheduled astronaut is Scott Tingle KG5NZA (***) Contact is a go for: Fri 2018-02-16 16:53:20 UTC 34 deg (***)
University of the Philippines Integrated School, Quezon City, Philippines, direct via DX1ISS (***) The ISS callsign is presently scheduled to be OR4ISS The scheduled astronaut is Mark Vande Hei KG5GNP (***) Contact is a go for: Sat 2018-02-17 10:23:00 UTC 70 deg (***)
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ARISS is always glad to receive listener reports for the above contacts. ARISS thanks everyone in advance for their assistance. Feel free to send your reports to aj9n(a)amsat.org or aj9n(a)aol.com. Listen for the ISS on the downlink of 145.8Ã˜ MHz.
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All ARISS contacts are made via the Kenwood radio unless otherwise noted.
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Several of you have sent me emails asking about the RAC ARISS website and not being able to get in. That has now been changed to http://www.ariss.org/
Note that there are links to other ARISS websites from this site.
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Looking for something new to do? How about receiving DATV from the ISS? If interested, then please go to the ARISS-EU website for complete details. Look for the buttons indicating Ham Video.

http://www.ariss-eu.org/
If you need some assistance, ARISS mentor Kerry N6IZW, might be able to provide some insight. Contact Kerry at kbanke(a)sbcglobal.net
****
ARISS congratulations the following mentors who have now mentored over 100
schools:
Francesco IKÃ˜WGF with 132
Satoshi 7M3TJZ with 128
Gaston ON4WF with 123
Sergey RV3DR with 100
****
The webpages listed below were all reviewed for accuracy. Out of date webpages were removed and new ones have been added. If there are additional ARISS websites I need to know about, please let me know.
Note, all times are approximate. It is recommended that you do your own orbital prediction or start listening about 10 minutes before the listed time.
All dates and times listed follow International Standard ISO 8601 date and time format YYYY-MM-DD HH:MM:SS
The complete schedule page has been updated as of 2018-02-06 05:00 UTC. (***)
Here you will find a listing of all scheduled school contacts, and questions, other ISS related websites, IRLP and Echolink websites, and instructions for any contact that may be streamed live.
http://www.amsat.org/amsat/ariss/news/arissnews.rtf

http://www.amsat.org/amsat/ariss/news/arissnews.txt
Total number of ARISS ISS to earth school events is 1206. (***) Each school counts as 1 event.
Total number of ARISS ISS to earth school contacts is 1155. (***)
Each contact may have multiple schools sharing the same time slot.
Total number of ARISS supported terrestrial contacts is 47.
A complete year by year breakdown of the contacts may be found in the file.
http://www.amsat.org/amsat/ariss/news/arissnews.rtf
Please feel free to contact me if more detailed statistics are needed.
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The following US states and entities have never had an ARISS contact:
Arkansas, Delaware, South Dakota, Wyoming, American Samoa, Guam, Northern Marianas Islands, and the Virgin Islands.
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QSL information may be found at:
http://www.ariss.org/qsl-cards.html
ISS callsigns: DPÃ˜ISS, IRÃ˜ISS, NA1SS, OR4ISS, RSÃ˜ISS
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The successful school list has been updated as of 2018-02-06 05:00 UTC. (***)
http://www.amsat.org/amsat/ariss/news/Successful_ARISS_schools.rtf
Frequency chart for packet, voice, and crossband repeater modes showing Doppler correction as of 2005-07-29 04:00 UTC
http://www.amsat.org/amsat/ariss/news/ISS_frequencies_and_Doppler_correction
.rtf
Listing of ARISS related magazine articles as of 2006-07-10 03:30 UTC.
http://www.amsat.org/amsat/ariss/news/ARISS_magazine_articles.rtf
Check out the Zoho reports of the ARISS contacts
https://reports.zoho.com/ZDBDataSheetView.cc?DBID=412218000000020415
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Exp. 53 on orbit
Mark Vande Hei KG5GNP
Alexander Misurkin
Joe Acaba KE5DAR
Exp. 54 on orbit
Scott Tingle KG5NZA
Norishige Kanai
Alexander Skvortsov
****
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[ANS thanks Charlie Sufana, AJ9N for the above information]

Satellite Shorts From All Over

+ Object 43199 has apparently been identified as Shaonian Xing (Youth Sat)
+ A video from the RSGB 2017 Convention
+ LibreSpaceFoundation Talk

Object 43199 has apparently been identified as Shaonian Xing (Youth Sat).
So the unknown satellite that identifies itself as MXSAT-1 is actually the student satellite Shaonian Xing. It also means this

satellite does not transmit on its coordinated frequencies. Let's wait and see if its FM repeater will be activated and on which frequencies it will operate.
http://www.amsatuk.me.uk/iaru/finished_detail.php?serialnum=547

[ANS would like to thank Nico, PA0DLO for the above information]

A video from the RSGB 2017 Convention, "Amateur deep space reception", by Paul Marsh, M0EYT can found at:
http://rsgb.org/main/publications-archives/video/rsgb-convention-lectures/rsgb-2017-convention-lectures/

Paul Marsh, M0EYT gives an introduction into deep space mega-DX, the equipment needed and the techniques used to identify extremely weak signals coming from man-made space probes in various parts of our solar system. X-Band (8.4GHz) is the primary band of discussion but Paul also talks briefly about S and Ka reception equipment and antennas.
You can receive signals from spacecraft in excess of 1 billion Km with
a modest size dish in your garden. If you have an interest in EME or microwave weak signal reception, Amateur DSR can help you push the limits
of what is possible with home-built equipment.

[ANS would like to thank JoAnne, K9JKM for the above information]

LibreSpaceFoundation Talk
Watch the LibreSpaceFoundation FOSDEM talk on UPSat_gr the 1st open source hardware and software satellite https://youtu.be/D8QtZ9IRLto

[ANS would like to thank JoAnne, K9JKM for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive addi-tional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the stu-dent rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
Chris Bradley, AA5EM
aa5em at amsat dot org

Sent via AMSAT-BB(a)amsat.org. AMSAT-NA makes this open forum available
to all interested persons worldwide without requiring membership.
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